

General

Title

Sedation and analgesia: percentage of mechanically ventilated patients evaluated for the presence of delirium.

Source(s)

Quality indicators in critically ill patients. Madrid (Spain): Spanish Society of Intensive and Critical Care and Units Coronary (SEMICYUC); 2011. 185 p.

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Process

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the percentage of mechanically ventilated patients evaluated for the presence of delirium.

Rationale

The aim of intensive care medicine is to provide critical patients with the healthcare that they need, ensuring the quality and safety of care. Intensive care medicine is one of the principal components of modern healthcare systems. There is an increasing demand for this resource, which involves high costs.

The quality of care has gradually come to be the central focus of healthcare, and in recent years patient safety has come to represent one of the key aspects of quality. In the case of intensive care medicine, this interest in quality is even more evident, not only because of its social and economic impact, but also because some of the dimensions involved in the quality of care of critical patients take on greater importance: critical patients are more vulnerable, access to critical care is more limited so efforts to

distribute resources equitably are more important, scant scientific evidence is available, and the efficiency is limited.

Delirium has a high incidence; it is associated with significant morbidity and increased costs in critical patients. It can be difficult to identify and the use of systems that allow it to be identified and treated appropriately is recommended. The Confusion Assessment Method for the intensive care unit (CAM-ICU) and the Intensive Care Delirium Screening Checklist (ICDSC) are useful for diagnosing delirium in critical patients.

Evidence for Rationale

Celis-Rodriguez E, Besso J, Birchenall C, de la Cal MA, Carrillo R, Castorena G, Ceraso D, Duenas C, Gil F, Jimenez E, Meza JC, Munoz M, Pacheco C, Palizas F, Pinilla D, Raffan F, Raimondi N, Rubiano S, Suarez M, Ugarte S, Federacion Panamericana e Iberica de Sociedades de Medicina Critica y Cuidados. [Clinical practice guideline based on the evidence for the management of sedoanalgesia in the critically ill adult patient]. Med Intensiva. 2007 Nov;31(8):428-71. [284 references] [PubMed](#)

Ely EW, Margolin R, Francis J, May L, Truman B, Dittus R, Speroff T, Gautam S, Bernard GR, Inouye SK. Evaluation of delirium in critically ill patients: validation of the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU). Crit Care Med. 2001 Jul;29(7):1370-9. [PubMed](#)

Palencia Herrejon E. [Diagnosis of delirium in the critical ill]. Med Intensiva. 2010 Jan-Feb;34(1):1-3. [PubMed](#)

Palencia-Herrejon E, Romera MA, Silva JA, Grupo de Trabajo de Analgesia y Sedacion de la SEMICYUC. [Delusion in the critical patient]. Med Intensiva. 2008 Feb;32 Spec No:77-91. [120 references] [PubMed](#)

Quality indicators in critically ill patients. Madrid (Spain): Spanish Society of Intensive and Critical Care and Units Coronary (SEMICYUC); 2011. 185 p.

Toro AC, Escobar LM, Franco JG, Diaz-Gomez JL, Munoz JF, Molina F, Bejarano J, Yepes D, Navarro E, Garcia A, Wesley Ely E, Esteban A. [Spanish version of the CAM-ICU (Confusion Assessment Method for the Intensive Care Unit). Pilot study of validation]. Med Intensiva. 2010 Jan-Feb;34(1):14-21. [PubMed](#)

Primary Health Components

Sedation; analgesia; mechanical ventilation (MV); delirium

Denominator Description

Number of patients undergoing mechanical ventilation (MV) greater than 48 hours (see the related "Denominator Inclusions/Exclusions" field)

Numerator Description

Number of mechanically ventilated patients evaluated for the presence of delirium (see the related "Numerator Inclusions/Exclusions" field)

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

One or more research studies published in a National Library of Medicine (NLM) indexed, peer-reviewed journal

Additional Information Supporting Need for the Measure

Unspecified

Extent of Measure Testing

Unspecified

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Hospital Inpatient

Intensive Care Units

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Single Health Care Delivery or Public Health Organizations

Statement of Acceptable Minimum Sample Size

Unspecified

Target Population Age

Age greater than or equal to 18 years

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

Better Care

National Quality Strategy Priority

Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Getting Better

IOM Domain

Effectiveness

Data Collection for the Measure

Case Finding Period

Unspecified

Denominator Sampling Frame

Patients associated with provider

Denominator (Index) Event or Characteristic

Institutionalization

Therapeutic Intervention

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

Number of patients undergoing mechanical ventilation (MV) greater than 48 hours

Population: All patients undergoing MV greater than 48 hours during the period reviewed.

Exclusions

Richmond Agitation Sedation Scale less than -2 or the equivalent score on another validated scale

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

Number of mechanically ventilated patients evaluated for the presence of delirium

Evaluated for the presence of delirium: Daily assessment with the Confusion Assessment Method for the Intensive Care Unit (CAM-ICU) or the Intensive Care Delirium Screening Checklist (ICDSC).

Exclusions

Unspecified

Numerator Search Strategy

Institutionalization

Data Source

Electronic health/medical record

Paper medical record

Type of Health State

Does not apply to this measure

Instruments Used and/or Associated with the Measure

Confusion Assessment Method for the Intensive Care Unit (CAM-ICU); Intensive Care Delirium Screening Checklist (ICDSC); Richmond Agitation Sedation Scale

Computation of the Measure

Measure Specifies Disaggregation

Does not apply to this measure

Scoring

Rate/Proportion

Interpretation of Score

Desired value is a higher score

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Prescriptive Standard

Standard: 90%

Evidence for Prescriptive Standard

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Identifying Information

Original Title

Identification of delirium.

Measure Collection Name

Quality Indicators in Critically Ill Patients

Measure Set Name

Sedation and Analgesia

Submitter

Spanish Society of Intensive and Critical Care and Units Coronary - Clinical Specialty Collaboration

Developer

Spanish Society of Intensive and Critical Care and Units Coronary - Clinical Specialty Collaboration

Funding Source(s)

Boehringer Laboratories

Composition of the Group that Developed the Measure

Work Group for Sedation and Analgesia

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Financial Disclosures/Other Potential Conflicts of Interest

Unspecified

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2011 Mar

Measure Maintenance

Unspecified

Date of Next Anticipated Revision

2016 Jul

Measure Status

This is the current release of the measure.

The measure developer reaffirmed the currency of this measure in May 2016.

Measure Availability

Source available in [English](#) and [Spanish](#) from the Spanish Society of Intensive and Critical Care and Units Coronary (SEMICYUC) Web site.

For more information, contact SEMICYUC at Paseo de la Reina Cristina, 36, 4^o D, Madrid, Spain; Phone: +34-91-502-12-13; Fax: +34-91-502-12-14; Web site: www.semicyuc.org ; E-mail: secretaria@semicyuc.org.

NQMC Status

This NQMC summary was completed by ECRI Institute on January 8, 2014. The information was verified by the measure developer on February 26, 2014.

The information was reaffirmed by the measure developer on May 10, 2016.

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Production

Source(s)

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